

Packard Bell
EasyNote GN45
Disassembly Manual



Packard Bell®

Table of Contents

Overview	2
Technician Notes	2
Disassembly Instructions.....	2
Reassembly Instructions	2
Required Tools	2
Hazardous Voltage	3
Avoid Electrostatic Discharge.....	3
Power Supply Unit	3
Battery	4
Hard Disk Drive.....	4
Optical Disk Drive	5
Memory Module	6
WLAN Card	7
Keyboard	8
Top Cover.....	9
LCD Module.....	10
LCD Panel	11
Main Board	12
CPU.....	12
Express Card Reader.....	13
Touchpad.....	14
Speaker Assembly	14
Power Button / WiFi / ECO Card	14
Notice	16

Overview

This document contains step-by-step disassembly instructions for the Packard Bell EasyNote GN45. The instructions are illustrated where necessary with images of the part that is being removed or disassembled.

Packard Bell reserves the right to make changes to the EasyNote GN45 without notice.

Technician Notes

Only technicians authorized by Packard Bell B.V. should attempt to repair this equipment. All troubleshooting and repair procedures are detailed to allow only subassembly/module level repair. Because of the complexity of the individual boards and subassemblies, no one should attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs can create a safety hazard. Any indication of component replacement or printed wiring board modifications may void any warranty or exchange allowances.

Disassembly Instructions

When disassembling the system unit, follow these general rules:

- Turn off the power using the battery switch.
- Disconnect the adapter.
- Remove the SD or MMC card from the device.
- Do not disassemble the system into parts that are smaller than those specified in the instructions.
- Label all removed connectors; note where the connector goes and in what position it was installed.

Reassembly Instructions

Reassembly is the reverse of the disassembly process. Use care to ensure that all cables and screws are returned to their proper positions. Check that no tools or any loose parts have been left inside the casing. Check that everything is properly installed and tightened.

Required Tools

All disassembly procedures can be performed using the following tools:

- Small Phillips and flat blade screwdriver.

Hazardous Voltage

There is hazardous voltage present inside the notebook when it is connected to an AC supply, even when the notebook's power switch is off. Exposure to hazardous voltage could cause personal injury. To avoid risk of injury, contact an Authorized Service Provider for proper (un)installation of optional hardware devices.

Avoid Electrostatic Discharge

Electrostatic electricity can easily damage circuit cards and integrated circuits (ICs). To reduce risk of damage, store them in protective packaging whenever they are not installed in your system.

Add-in cards can be extremely sensitive to ESD and always require careful handling. After removing the card from the notebook, place the card flat on a grounded, static-free surface, component-side up. Use a conductive foam pad if available, but not the card wrapper. Do not slide the card over any surface.

Before you install or remove memory modules, video memory, disk drives, circuit cards or other devices, protect them from static electricity. To do so, make sure your notebook's power switch is OFF. Then, unplug the notebook's AC power cord. Before picking up the device you (un)install, you should wear an anti-static wrist wrap (available at electronic supply stores). Be sure to connect the wrist wrap to an unpainted metal portion of the notebook casing. As an alternative, you can dissipate electrostatic build-up by touching an unpainted metal portion of the notebook casing with one hand. Then touch the device you are (un)installing with the other hand, and maintain continuous contact with it until it is (un)installed in the notebook.

Power Supply Unit

Under no circumstances should you attempt to disassemble the power supply. The power supply contains no user-serviceable parts. Inside the power supply are hazardous voltages that can cause serious personal injury. Always return a defective power supply to your dealer.

WARNING

Ensure that the notebook is disconnected from its power source and from all telecommunications links, networks, or modem lines whenever the casing cover is removed. Do not operate the notebook with the cover removed.

AVERTISSEMENT

Assurez-vous que le système est débranché de son alimentation ainsi que de toutes les liaisons de télécommunication, des réseaux, et des lignes de modem avant d'enlever le capot. Ne pas utiliser le système quand le capot est enlevé.

WARNUNG

Das System darf weder an eine Stromquelle angeschlossen sein noch eine Verbindung mit einer Telekommunikationseinrichtung, einem Netzwerk oder einer Modem-Leitung haben, wenn die Gehäuseabdeckung entfernt wird. Nehmen Sie das System nicht ohne die Abdeckung in Betrieb.

ADVERTENCIA

Asegúrese de que cada vez que se quite la cubierta del portátil, el sistema haya sido desconectado de la red de alimentación y de todos los enlaces de telecomunicaciones, de red y de líneas de módem. No ponga en funcionamiento el sistema mientras la cubierta esté quitada.

WAARSCHUWING

Zorg er voor dat alle verbindingen van en naar de notebook (stroom, modem, netwerk, etc) verbroken worden voordat de behuizing geopend wordt. Zet de notebook nooit aan als de behuizing geopend is.

AVVERTENZA

Prima di rimuovere il coperchio del telaio, assicurarsi che il sistema sia scollegato dall'alimentazione, da tutti i collegamenti di comunicazione, reti o linee di modem. Non avviare il sistema senza aver prima messo a posto il coperchio.

Battery

Perform the following steps to remove the battery:

1. Make sure the power is off.
2. Turn the unit upside down.
3. Unlock the left battery lock.
4. Push battery lock on right outward to release the battery.
5. Slide the battery out of its place in the direction of the arrow.



Fig. 1 Removing the battery.

Hard Disk Drive

To remove the hard disk drive, first remove the battery (see [Battery](#)) and then perform the following steps:

1. Remove the screws on the hard disk drive cover and carefully open it.



Fig. 2 Removing the hard disk drive cover.

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2. Pull out the hard disk drive using the plastic tab.

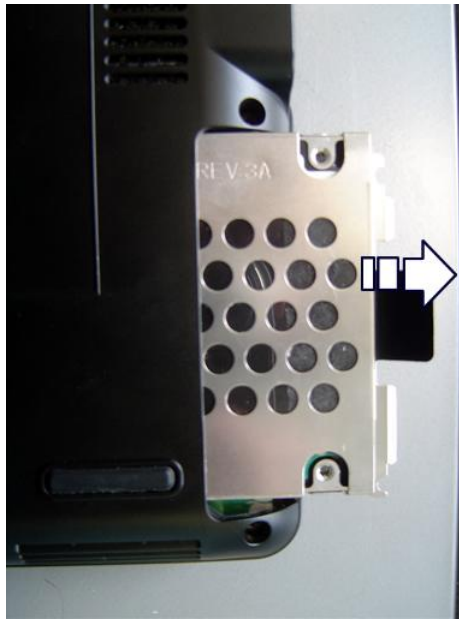


Fig. 3 Removing the hard disk drive.

3. Remove the two screws on both sides of the hard disk drive shield.



Fig. 4 Unscrewing the hard disk drive shield screws.

Optical Disk Drive

To remove the optical disk drive, first remove the battery (see [Battery](#)) and then perform the following steps:

1. Release the screw securing the optical disk drive.



Fig. 5 Releasing the optical disk drive.

2. Remove the optical disk drive from the drive bay.

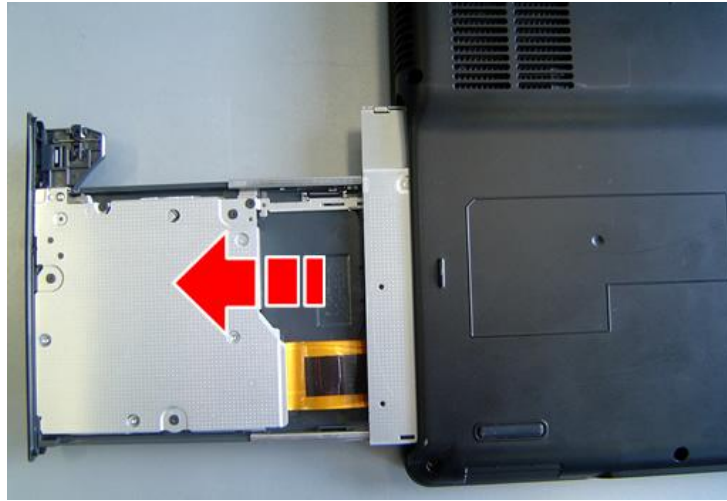


Fig. 6 Removing the optical drive.

Memory Module

To remove the memory module, first remove the battery (see [Battery](#)) and then perform the following steps:

1. Release the screws retaining the memory module slot cover.



Fig. 7 Removing the memory slot cover.

2. Remove the memory module from the slot and put it aside.



Fig. 8 Removing the memory module.

WLAN Card

To remove the WLAN card, first remove the battery (see [Battery](#)) and then perform the following steps:

1. Release the screws retaining the memory module slot cover (see step 1 in [Memory Module](#)).
2. Disconnect the wireless antenna cables (red circles on Fig. 9).



Fig. 9 Removing the WLAN card.

3. Remove the two screws securing the WLAN card (yellow circles on Fig. 9).
4. Lift the card from the main board.

Keyboard

To remove the keyboard, first remove the battery (see [Battery](#)) and then perform the following steps:

1. Remove the indicated screws on the back of the notebook.



Fig. 10 Left keyboard back screw.



Fig. 11 Right keyboard back screw.

2. Use a small screwdriver to unlock the keyboard cover on both sides.



Fig. 12 Releasing the keyboard cover.

3. Remove both screws securing the keyboard.



Fig. 13 Releasing the keyboard.

4. Before removing the keyboard, disconnect the keyboard flat cable.

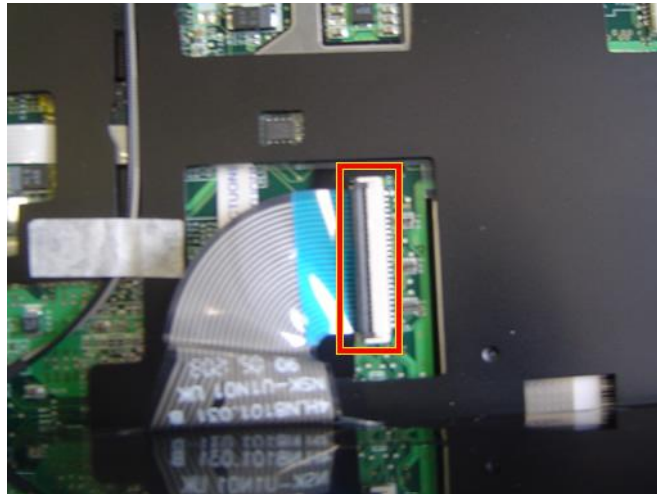


Fig. 14 Disconnecting the flat cable.

Top Cover

To remove the top cover, first remove the battery (see [Battery](#)), remove the hard disk drive (see [Hard Disk Drive](#)), remove the optical disk drive (see [Optical Disk Drive](#)), remove the keyboard cover (see [Keyboard](#)), Remove the Express Card (if needed), and then perform the following steps:

1. Turn the notebook upside down and remove all screws securing the bottom cover.



Fig. 15 Removing the bottom cover screws.

2. Remove the four screws securing the top cover to the motherboard.



Fig. 16 Releasing the top cover.

3. Separate the top cover from the casing.

LCD Module

To remove the LCD module, remove the keyboard top cover (see [Keyboard](#)) and then perform the following steps:

1. Remove the four screws holding the LCD module
2. To disconnect the video cable, carefully pull the plastic part upward.



Fig. 17 Removing the LCD module.

LCD Panel

To remove the LCD panel, remove the keyboard cover (see [Keyboard](#)) and then perform the following steps:

1. Remove the screw securing the LCD cover next to the hinge on each side.



Fig. 18 Removing the LCD cover screws.

2. Remove the LCD top cover.



Fig. 19 Removing the LCD cover.

3. Disconnect the VGA cable.

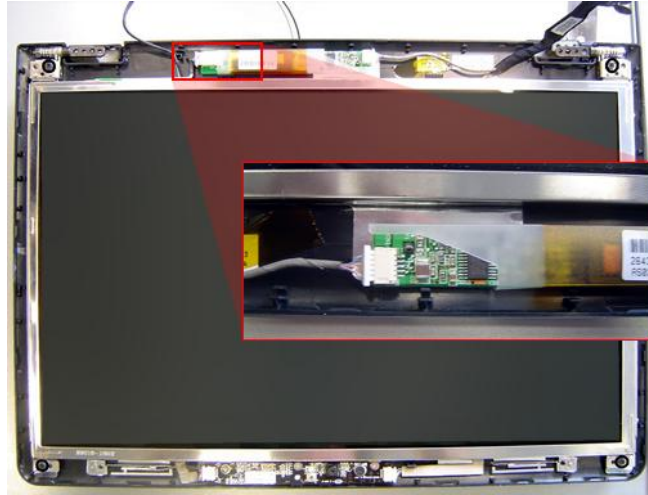


Fig. 20 Disconnecting the VGA cable.

Main Board

To remove the main board, first remove the top cover (see [Top Cover](#)) and then perform the following steps:

1. Remove the four screws securing the main board.

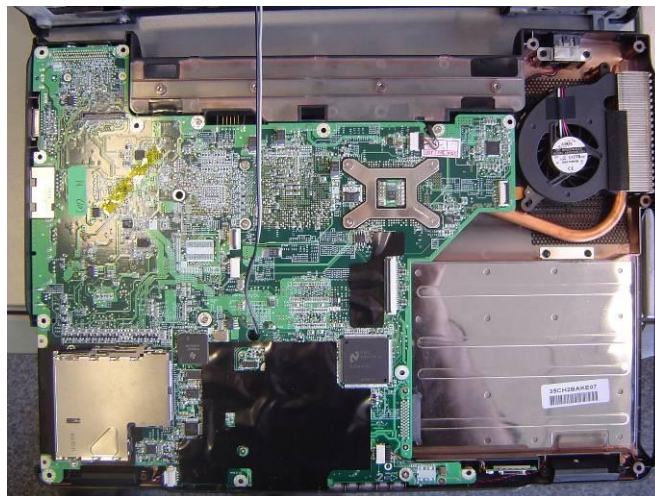


Fig. 21 Removing the main board screws.

2. Pull the main board towards the right side and upward to extract it from the casing.

CPU

To remove the CPU, first remove the main board (see [Main Board](#)) and then perform the following steps:

1. Remove the screws securing the heat sink.



Fig. 22 Removing the heat sink.

2. Remove the CPU.

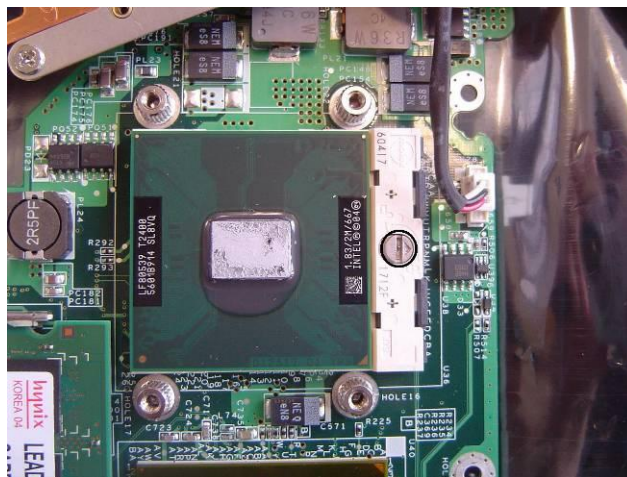


Fig. 23 Removing the CPU.

Express Card Reader

To remove the Express Card reader, remove the top cover (see [Top Cover](#)) and then do the following:

1. Remove the two screws securing the Express Card reader.

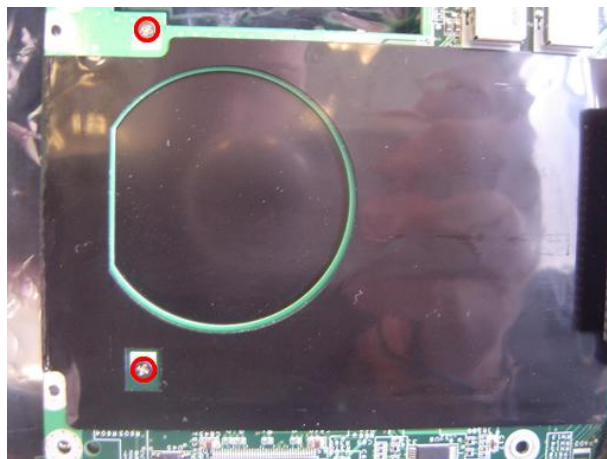


Fig. 24 Express card reader slot.

Touchpad

To remove the touchpad, first remove the top cover (see [Top Cover](#)) and then perform the following steps:

1. Remove the four screws securing the touchpad to the top cover.

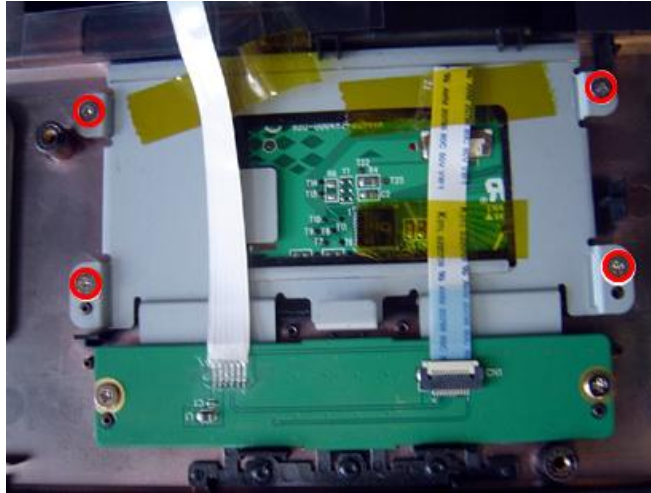


Fig. 25 Removing the touchpad.

Speaker Assembly

To remove the speaker assembly, first remove the top cover (see [Top Cover](#)) and then perform the following steps:

1. Remove the two screws holding the speaker assembly.

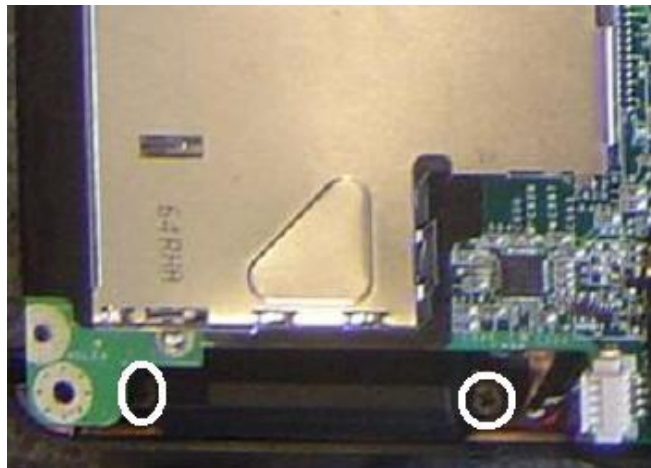


Fig. 26 Removing the speaker assembly.

Power Button / WiFi / ECO Card

To remove the power button / WiFi / ECO card, first remove the keyboard top cover (see [Keyboard](#)) and then perform the following steps:

1. Remove the two screws holding the card.
2. Carefully disconnect the flat cable.



Fig. 27 Removing the power button/ WiFi / ECO card.

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Author: Olivier Rimbault & Juan M. Calviño

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